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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:

MAGILL et al.

Serial No.: 10/800,079

Filed: March 11, 2004

Atty. File No.: 3944-13-CIP-1

For: "A PROCESS AND APPARATUS
FOR IMPROVING AND CONTROL-
LING THE VULCANIZATION OF
NATURAL AND SYNTHETIC
RUBBER COMPOUNDS"

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

) Group Art Unit: 2125

) Examiner: Not Yet Assigned

**SECOND REQUEST FOR
CORRECTION OF FILING RECEIPT**

<p style="text-align: center;">CERTIFICATE OF MAILING</p> <p>I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL IN AN ENVELOPE ADDRESSED TO THE COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450 ON THIS <u>15</u> DAY OF <u>July</u>, 2004.</p> <p style="text-align: center;">SHERIDAN ROSS P.C.</p> <p>BY: <u>Chasity C. Rossum</u> Chasity C. Rossum</p>
--

Dear Sir:

This is a Second Request for correction of the filing receipt, in response to the Response to Request for Corrected Filing Receipt issued by the U.S. Patent Office on July 2, 2004 (Confirmation No. 4830) (copy enclosed), wherein it states that the Office is unable to comply with our previous request because:

"continuity claimed under 35 U.S.C. § 120 cannot be added to the Filing Receipt without the applicant supplying the relationship (continuation, divisional, or continuation-in-part) in an Application Data Sheet or amendment to the first page of the specification."

Presumably, the priority information referred to above was obtained from the Application Data Sheet which did not identify the relationship between the present application and prior applications. However, the first page of the specification fully identifies such relationships. Accordingly, in addition to identifying such relationships herein, a Supplemental Application Data Sheet is also being filed herewith that also identifies the relationships in question.

Additionally, enclosed herein are copies of the previously filed Application Data Sheet wherein the priority data claimed is found on pages 4 and 5, the first page of the specification



wherein the priority data is provided in the first paragraph, and the Utility Continuation-In-Part Patent Application Transmittal wherein the priority data is in the paragraph immediately following the mailing address. These documents were submitted in the present patent application when the application was initially filed with the U.S. Patent Office on March 11, 2004. Each of these documents identify all prior applications from which the present application claims priority.

Therefor, Applicants respectfully request that the Filing Receipt be corrected as follows:

In the Domestic Priority Data as Claimed by Applicant

This application is a CIP of	10/666,433	09/18/2003
which is a CIP of	10/267,197	10/08/2002
which claims the benefit of	60/394,736	07/09/2002
This application also claim the benefit of	09/815,342	03/21/2001
and	10/102,614	03/19/2002
which claims the benefit of	60/278,034	03/21/2001

For your reference, a copy of the Filing Receipt is enclosed, with the corrections indicated in red. Please issue a corrected Filing Receipt for this patent application.

Respectfully submitted,
SHERIDAN ROSS P.C.

By: 

Dennis J. Dupray, Ph.D.
Registration No. 46,299
1560 Broadway, Suite 1200
Denver, Colorado 80202-5141
(303) 863-9700

Date: July 15, 2004

J:\3944\13-CIP-1\Correction of Receipt-02.wpd



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:

MAGILL et al.

Serial No.: 10/800,079

Filed: March 11, 2004

Atty. File No.: 3944-13-CIP-1

For: "A PROCESS AND APPARATUS
FOR IMPROVING AND
CONTROLLING THE
VULCANIZATION OF NATURAL
AND SYNTHETIC RUBBER
COMPOUNDS"

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313

) Group Art Unit: 2125
)

) Examiner: Not Yet Assigned
)

SUPPLEMENTAL
APPLICATION DATA SHEET

CERTIFICATE OF MAILING

I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS
BEING DEPOSITED WITH THE UNITED STATES POSTAL
SERVICE AS FIRST CLASS MAIL IN AN ENVELOPE
ADDRESSED TO THE COMMISSIONER FOR PATENTS, P.O.
BOX 1450, ALEXANDRIA, VA 22313 ON THIS 15 DAY OF
July, 2004.

* SHERIDAN ROSS P.C.

BY: Chasity C. Rossum

Chasity C. Rossum

DOMESTIC PRIORITY INFORMATION

This application is a CIP of 10/666,433 09/18/2003

which is a CIP of 10/267,197 10/08/2002

which claims the benefit of 60/394,736 07/09/2002

This application also claim the benefit of 09/815,342 03/21/2001

and 10/102,614 03/19/2002

which claims the benefit of 60/278,034 03/21/2001

Respectfully submitted,

SHERIDAN ROSS P.C.

By: Dennis J. Dupray

Dennis J. Dupray, Ph.D.

Registration No. 46,299

1560 Broadway, Suite 1200

Denver, Colorado 80202-5141

(303) 863-9700

Date: July 15, 2004

J:\3944\13-CIP-1\PTO\ADS-02.wpd



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
 United States Patent and Trademark Office
 Address: COMMISSIONER FOR PATENTS
 P.O. Box 1450
 Alexandria, Virginia 22313-1450
 www.uspto.gov

APPLICATION NUMBER	FILING OR 371(c) DATE	FIRST NAMED APPLICANT	ATTY. DOCKET NO./TITLE
10/800,079	03/11/2004	Richard Magill	3944-13-CIP-1

22442
 SHERIDAN ROSS PC
 1560 BROADWAY
 SUITE 1200
 DENVER, CO 80202

RECEIVED

JUL 07 2004

SHERIDAN, ROSS

CONFIRMATION NO. 4830



OC000000013101917

Date Mailed: 07/02/2004

COPY

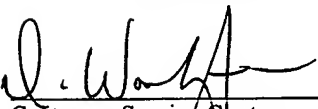
RESPONSE TO REQUEST FOR CORRECTED FILING RECEIPT

Domestic Continuity and Foreign Priority

In response to your request for a corrected Filing Receipt, the Office is unable to comply with the request because:

- ☐ The priority or continuity claim has not been entered because it was not filed during the required time period. Applicant may wish to consider filing a petition to accept an unintentionally delayed claim for priority. See 37 CFR 1.55 or 1.78.
- ☒ Continuity claimed under 35 U.S.C. § 120 cannot be added to the Filing Receipt without the applicant supplying the relationship (continuation, divisional, or continuation-in-part) in an Application Data Sheet or amendment to the first page of the specification.
- ☐ A claim for priority cannot be made based on an application filed after the application making the claim.
- ☐ Domestic benefit and foreign priority claims will not be captured in a provisional application. A provisional application is not entitled to a right of priority or to the benefit of an earlier filing date of any other application. See 35 U.S.C. § 111(b)(7) and 37 CFR 1.53(c)(4).
- ☐ A domestic continuity claim cannot be made to a foreign application and the filing receipt will only list the foreign country, application number, and filing date.
- ☐ Foreign priority will appear on the Filing Receipt in the following order: **Country, Application number, Filing date.**
- ☐ This application is the result of a conversion from a provisional application. Priority based on such application cannot be made since it no longer exists as a provisional application.

- ☐ The application(s) to which priority is claimed were filed over a year prior to the filing date of this application. Therefore, the referenced application(s) cannot be claimed as domestic or foreign priority.
- ☐ To change the benefit claim of a U.S. prior-filed application, applicant must amend the first sentence of the specification (if the benefit claim is referenced in the specification), or provide a supplemental application data sheet (ADS) (if the benefit claim was submitted in an ADS), with the desired benefit claim. Note that once a benefit claim is deleted, applicant will not be able to claim such prior-filed application again, if the above-identified application was filed on or after November 29, 2000.
- ☐ To change a foreign priority claim, applicant must submit a supplemental oath or declaration (if the priority claim is referenced in the oath or declaration), or a supplemental application data sheet (ADS) (if the priority claim was submitted in an ADS), with the desired priority claim. If a supplemental ADS is submitted, any deletions should be shown with strikeouts. Note that once a priority claim is deleted, applicant will not be able to claim such foreign application again, if the above-identified application was filed on or after November 29, 2000.



Customer Service Center
Initial Patent Examination Division (703) 308-1202

PART 1 - ATTORNEY/APPLICANT COPY



COPY

A PROCESS AND APPARATUS FOR IMPROVING AND CONTROLLING THE VULCANIZATION OF NATURAL AND SYNTHETIC RUBBER COMPOUNDS

RELATED APPLICATIONS

5 This is a continuation-in-part application of pending prior U.S. Patent Application No. 10/666,433 filed September 18, 2003, which is a continuation-in-part of U.S. Patent Application No. 10/267,197 filed October 8, 2002 which claims the benefit of U.S. Provisional Patent Application No. 60/394,736 filed July 9, 2002. This application also claims the benefit of both U.S. Patent Application No. 09/815,342 filed March 21, 2001, 10 and U.S. Patent Application No. 10/102,614 filed March 19, 2002 which claims the benefit of U.S. Provisional Patent Application No. 60/278,034 filed March 21, 2001. The entire disclosures of the above-cited prior applications are considered to be part of the disclosure of the accompanying application and accordingly are hereby fully incorporated by reference.

RELATED FIELD OF THE INVENTION

15 This invention relates to a new and improved process and apparatus for monitoring and controlling the vulcanization of natural and synthetic rubber compounds containing fillers such as carbon black, oils, clay, and the like. Typical base rubber polymers which 20 may be employed include styrene-butadiene, polybutadiene, polyisoprene, ethylene-propylene, butyl, halobutyl, nitrile, polyacrylic, neoprene, hypalon, silicone, fluorcarbon elastomers, polyurethane elastomers, natural rubber and hydrogenated nitrile-butadiene rubber, and mixtures thereof.

25 BACKGROUND OF THE INVENTION

Heretofore methods of applying fixed process parameters to the processing of rubber polymeric compounds during vulcanization have resulted in both reduced productivity due to overly conservative cure times and poor product uniformity due to the inability of the fixed process parameters to accommodate the inherent variability in the 30 process.



UTILITY CONTINUATION-IN-PART PATENT APPLICATION TRANSMITTAL

(Only for Continuation-in-Part applications under 37 CFR 1.53(b))

EV368035947US

COPY

Attorney Docket No.: 3944-13-CIP-1

Inventors: Richard Magill of 2875 Dharma Avenue, Broomfield, Colorado 80020
John C. Van Doren of 193 Twilight Terrace, Bailey, Colorado 80421
Bruce Sellers of 2104 Jackson Street, Golden, Colorado 80401
Tim Erickson of 7766 S. Saulsbury Street, Littleton, Colorado 80128
Scott Schneider of 2314 W. Costilla Avenue, Littleton, Colorado 80120
Steve Courington of 9821 Cypress Point Circle, Lone Tree, Colorado 80124
Lance Bethel of 11182 Chase Way, Westminster, Colorado 80020

Express Mail Label No.: EV368035947US

Title: "A PROCESS AND APPARATUS FOR IMPROVING AND CONTROLLING THE VULCANIZATION OF NATURAL AND SYNTHETIC RUBBER COMPOUNDS"

Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

This is a continuation-in-part application of pending prior U.S. Patent Application No. 10/666,433 filed September 18, 2003, which is a continuation-in-part of U.S. Patent Application No. 10/267,197 filed October 8, 2002 which claims the benefit of U.S. Provisional Patent Application No. 60/394,736 filed July 9, 2002. This application also claims the benefit of both U.S. Patent Application No. 09/815,342 filed March 21, 2001, and U.S. Patent Application No. 10/102,614 filed March 19, 2002 which claims the benefit of U.S. Provisional Patent Application No. 60/278,034 filed March 21, 2001. The entire disclosures of the prior applications, from which a copy of the oath or declaration is supplied, are considered to be part of the disclosure of the accompanying application and are hereby incorporated by reference.

Enclosed for filing with the above-identified utility patent application, please find the following:

- ☒ Applicant claims small entity status. See 37 CFR 1.27.
- ☒ Specification (Total Pages of Text, including Abstract and Claims: 53)
- ☒ Drawing(s) (35 USC 113) (Total Sheets: 20) ☐ FORMAL ☒ INFORMAL
- ☐ Nonpublication Request under 35 U.S.C. 122(b)(2)(B)(i).
- ☒ Application Data Sheet
- ☒ Information Disclosure Statement (IDS/PTO-1449)
- ☒ Return Postcard (MPEP 503) (should be specifically itemized)
- ☒ A check in the amount of \$475.00 is enclosed.

FEE CALCULATION:

	(COL. 1) NO. FILED			(COL. 2*) NO. EXTRA		SMALL ENTITY			LARGE ENTITY	
						RATE	FEE		RATE	FEE
BASIC FEE:							\$385.00	OR		\$770.00
TOTAL CLAIMS:	30	-	20		10	X \$9 =	\$90.00	OR	X \$18 =	
INDEP. CLAIMS:	1	-	3		0	X \$43 =	\$0.00	OR	X \$86 =	
MULTIPLE DEPENDENT CLAIMS						+ \$145 =	\$0.00	OR	+ \$290 =	
*IF THE DIFFERENCE IN COL. 2 IS LESS THAN ZERO, ENTER "O" IN COL. 2.						TOTAL:	\$475.00			

OTHER INFORMATION:

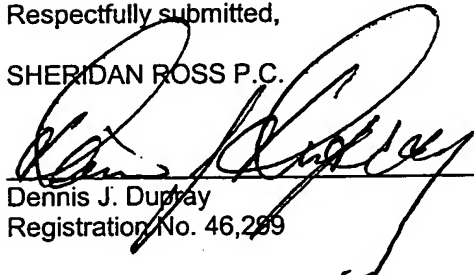
1. ☒ The Commissioner is hereby authorized to debit any underpayments or credit any overpayment to Deposit Account No. 19-1970.
2. ☒ The Commissioner is hereby authorized to charge all required fees for extensions of time under §1.17 to Deposit Account No. 19-1970.
3. ☐ Foreign Priority benefits are claimed under 35 USC §119 of Patent Application Serial No. filed
4. Correspondence Address:

Dennis J. Dupray
SHERIDAN ROSS P.C.
1560 Broadway, Suite 1200
Denver, Colorado 80202-5141
Telephone: (303) 863-9700
Facsimile: (303) 863-0223

5. ☒ Customer No: **22442**

Respectfully submitted,

SHERIDAN ROSS P.C.


Dennis J. Dupray
Registration No. 46,289

Date: MAR 11, 2004



UNITED STATES PATENT AND TRADEMARK OFFICE



UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

DJD

APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/800,079	03/11/2004	2125	475	3944-13-CIP-1	20	30	1

CONFIRMATION NO. 4830

22442
SHERIDAN ROSS PC
1560 BROADWAY
SUITE 1200
DENVER, CO 80202

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JUN 04 2004

SHERIDAN, ROSS

FILING RECEIPT



OC000000012825518

COPY

Date Mailed: 06/01/2004

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Filing Receipt Corrections, facsimile number 703-746-9195. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Richard Magill, Broomfield, CO;
John C. Van Doren, Bailey, CO;
Bruce Sellers, Golden, CO;
Tim Erickson, Littleton, CO;
Scott Schnieder, Aurora, CO;
Steve Courington, Lone Tree, CO;
Lance Bethel, Westminster, CO;

Assignment For Published Patent Application

Signature Control Systems, Denver, CO;

Domestic Priority data as claimed by applicant

This application is a CIP of 10/666,433 09/18/2003
which is a CIP of 10/267,197 10/08/2002
which claims benefit of 60/394,736 07/09/2002

This application also claims priority from 09/815,342 3-21-01
and 10/102,614 3-19-02

Foreign Applications

which claims the benefit of 40/278,034 3-21-01.

If Required, Foreign Filing License Granted: 05/29/2004

Projected Publication Date: To Be Determined - pending completion of Missing Parts

Non-Publication Request: No



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:

MAGILL et al.

Serial No.: Not Yet Assigned

Filed: Herewith

Atty. File No.: 3944-13-CIP-1

For: "A PROCESS AND APPARATUS
FOR IMPROVING AND
CONTROLLING THE
VULCANIZATION OF NATURAL
AND SYNTHETIC RUBBER
COMPOUNDS"

APPLICATION DATA SHEET

Express Mail Label: EV368035947US

COPY

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313

INVENTOR INFORMATION

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Citizenship Country: U.S.A.

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Citizenship Country: U.S.A.

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Citizenship Country: U.S.A.

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Citizenship Country: U.S.A.

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U.S.A.

Citizenship Country: U.S.A.

CORRESPONDENCE INFORMATION

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U.S.A.

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APPLICATION INFORMATION

Title Line One: "A PROCESS AND APPARATUS FOR IMPROVING AND
CONTROLLING THE VULCANIZATION OF NATURAL AND
SYNTHETIC RUBBER COMPOUNDS"

Total Drawing Sheets: 20
Formal Drawings: No
Suggested Drawing for Publication: 13
Application Type: Utility Continuation-In-Part
Docket Number: 3944-13-CIP-1

Licensed US Govt. Agency:	No
Contract or Grant Numbers One:	Not Applicable
Contract or Grant Numbers Two:	Not Applicable
Secrecy Order in Parent Appl.:	No

REPRESENTATIVE INFORMATION

Representative Customer Number: 22442

Registration Number One:	29,127
Registration Number Two:	31,713
Registration Number Three:	31,328
Registration Number Four:	32,020
Registration Number Five:	33,374
Registration Number Six:	33,005
Registration Number Seven:	35,536
Registration Number Eight:	39,617
Registration Number Nine:	37,739
Registration Number Ten:	38,942
Registration Number Eleven:	38,031
Registration Number Twelve:	40,638
Registration Number Thirteen:	42,460
Registration Number Fourteen:	44,189
Registration Number Fifteen:	42,499
Registration Number Sixteen:	42,801
Registration Number Seventeen:	46,299
Registration Number Eighteen:	48,040
Registration Number Nineteen:	47,999
Registration Number Twenty:	45,246
Registration Number Twenty-One:	51,470
Registration Number Twenty-Two:	51,829
Registration Number Twenty-Three:	52,055
Registration Number Twenty-Four:	43,512
Registration Number Twenty-Five:	54,022

DOMESTIC PRIORITY INFORMATION

This application claims the benefit of:

Application One:	10/666,433
Filing Date:	September 18, 2003

Application Two:	10/267,197
Filing Date:	October 8, 2002

Application Three:	60/394,736
Filing Date:	July 9, 2002

Application Four: 10/102,614
Filing Date: March 19, 2002

Application Five: 09/815,342
Filing Date: March 21, 2001

Application Six: 60/278,034
Filing Date: March 21, 2001

ASSIGNEE INFORMATION:

Assignee One: Signature Control Systems
Address One: 10180 West Hampden Avenue
Denver, Colorado 80227

PRIOR FOREIGN APPLICATIONS

Foreign Application One:: Not Applicable
Filing Date:: Not Applicable
Country:: Not Applicable
Priority Claimed:: No

Respectfully submitted,

SHERIDAN ROSS P.C.

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Date: MARCH 11, 2001

J:\3944\13-CIP-1\ADS.wpd